

Report No.: SZEM160300124301

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FCC REPORT

Application No: SZEM1603001243CR

Applicant:Shenzhen Damai Technology Co., LtdManufacturer:Shenzhen Damai Technology Co., Ltd

Product Name: Wireless Portable Disk

Model No.(EUT): A6

Trade Mark: airdisk

FCC ID: 2AFTT-A6

Standards: 47 CFR Part 15, Subpart C (2015)

Date of Receipt: 2016-03-11

Date of Test: 2016-03-17 to 2016-04-25

Date of Issue: 2016-05-05

Test Result: PASS *

. * In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.



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2 Version

Revision Record								
Version Chapter Date Modifier Remark								
00		2016-05-05		Original				

Authorized for issue by:		
Tested By	(Bill Chen) /Project Engineer	2016-04-25 Date
Prepared By	Joyce Shi (Joyce Shi) /Clerk	2016-05-05 Date
Checked By	Exic Fu (Eric Fu) /Reviewer	2016-05-05 Date



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3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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5 General Information

5.1 Client Information

Applicant:	Shenzhen Damai Technology Co., Ltd
Address of Applicant:	5/F. 1 Building, Financial Base, No.8, kefa Road, High-TechPark, Shenzhen, China
Manufacturer:	Shenzhen Damai Technology Co., Ltd
Address of Manufacturer:	5/F. 1 Building, Financial Base, No.8, kefa Road, High-TechPark, Shenzhen, China

5.2 General Description of EUT

Product Name:	Wireless Portable Disk		
Model No.:	A6		
Trade Mark:	airdisk		
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz		
	IEEE 802.11n(HT40): 2422MHz to 2452MHz		
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels		
	IEEE 802.11n HT40: 7 Channels		
Channel Separation:	5MHz		
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)		
	IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)		
	IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM,		
	QPSK,BPSK)		
Antenna Type	Chip		
Antenna Gain:	1dBi		
Test voltage	120V60Hz		
Battery	Rechargeable battery: DC 3.7V 5000mAh 18.5Wh (charge by USB)		





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Operation Frequency each of channel(802.11b/g/n HT20)										
Channel	Fre	equency	Channe	I Frequency	Channel	Fre	quency	Chan	nel	Frequency
1	24	112MHz	4	2427MHz	7	244	12MHz	10)	2457MHz
2	24	117MHz	5	2432MHz	8	244	47MHz 1			2462MHz
3	24	122MHz	6	2437MHz	9	245	2452MHz			
Operation F	requ	ency each	of channe	el(802.11n HT40)					
Channe		Frequ	ency	Channel	Frequen	су	Chan	nel	F	requency
3 2422MHz		6	2437MHz		9			2452MHz		
4 2427MHz		7	2442MF	łz						
5 2		2432	ИНz	8	2447MF	łz				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40):

` '	
Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz



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5.3 Test Environment and Mode

Operating Environment:						
Temperature:	25.0 °C					
Humidity:	55 % RH					
Atmospheric Pressure:	1015 mbar					
Test mode:						
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all					
	kind of data rate.					

5.4 Description of Support Units

The EUT has been tested independent unit.

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

· CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

• FCC - Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

The 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-3.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



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5.10Equipment List

	Conducted Emission								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)			
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2015-05-13	2016-05-13			
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2015-10-09	2016-10-09			
3	LISN	ETS- LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25			
4	8 Line ISN	Fischer Custom Communication s Inc.	FCC- TLISN-T8- 02	EMC0120	2015-08-30	2016-08-30			
5	4 Line ISN	Fischer Custom Communication s Inc.	FCC- TLISN-T4- 02	EMC0121	2015-08-30	2016-08-30			
6	2 Line ISN	Fischer Custom Communication s Inc.	FCC- TLISN-T2- 02	EMC0122	2015-08-30	2016-08-30			
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25			
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09			



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	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS- LINDGREN	N/A	SEM001-01	2015-05-13	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2015-09-16	2016-09-16
3	BiConiLog Antenna (26-3000MHz)	ETS- LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
4	Double-ridged horn (1-18GHz)	ETS- LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
5	Horn Antenna (18-26GHz)	ETS- LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2016-04-25	2017-04-25
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2015-10-09	2016-10-09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13

	RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date	
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2015-05-13	2016-05-13	
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25	
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15	
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2015-10-09	2016-10-09	
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14	
6	Low Noise Amplifier	Black Diamond Series	BDLNA- 0118- 352810	SEM005-05	2015-10-09	2016-10-09	
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A	



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	RF connected test					
Item	Test Equipment	nt Manufacturer Model		Inventory No.	Cal. date	Cal.Due date
item	rest Equipment	Mariaracturer	WOOGCI IVO.	inventory ivo.	(yyyy-mm-dd)	(yyyy-mm-dd)
1	DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2015-10-09	2016-10-09
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2015-10-17	2016-10-17
3	Barometer	ChangChun	DYM3	SEM002-01	2015-05-13	2016-05-13
4	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25
5	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2015-10-09	2016-10-09



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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

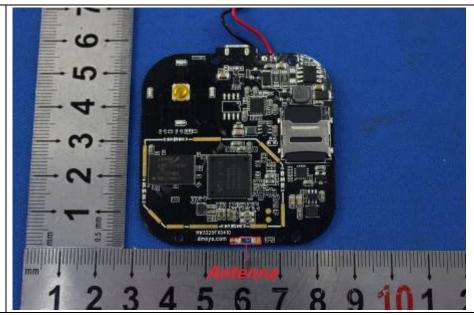
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1dBi.



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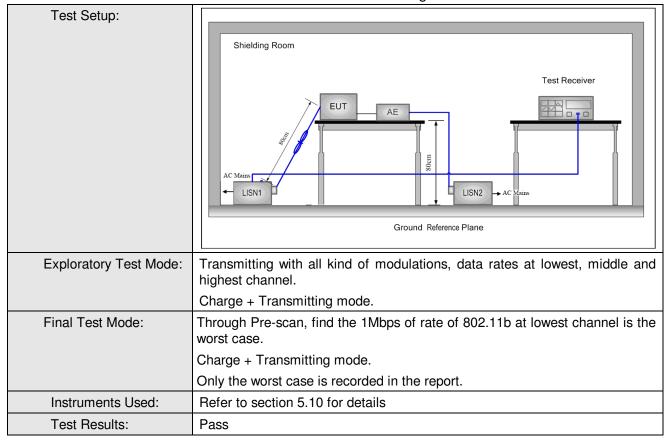
6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:	5 (441.)	Limit (c	dBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm				
Test Procedure:	1) The mains terminal disturbation. 2) The EUT was connected to Impedance Stabilization linear impedance. The power call connected to a second reference plane in the same way as multiple socket outlet strip a single LISN provided their 3) The tabletop EUT was placed on the horizontal ground reference plane. was placed on the horizontal ground reference plane. Was placed on the horizontal ground reference preference plane. The LISN unit under test and bonded mounted on top of the group between the closest points the EUT and associated ed. 5) In order to find the maximal equipment and all of the in ANSI C63.10: 2013 on corrected.	bance voltage test was o AC power source through the provision of all other units of LISN 2, which was the LISN 1 for the unit of was used to connect ating of the LISN was recedupon a non-metallic And for floor-standing from the vertical ground reference plane, was bonded to the last of the LISN 1 and the quipment was at least of the last of the least of the last	being measured. A multiple power cable not exceeded. Ic table 0.8m above to arrangement, the left reference plane. The reference plane. The reference plane. The horizontal ground from the boundary of the plane for LISNs this distance was EUT. All other units 0.8 m from the LISN we positions of e changed according	5Ω bund es to the EUT the of 2.	



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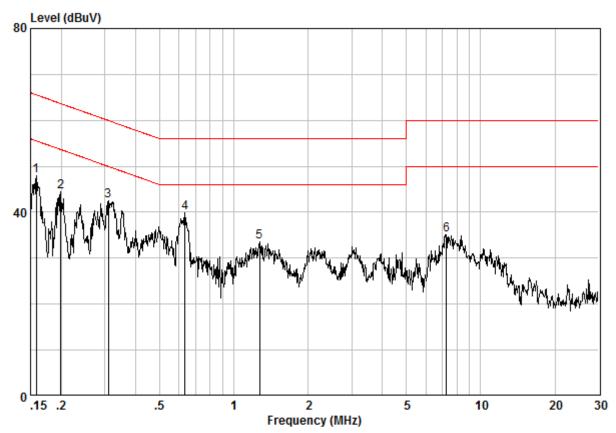
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Site : Shielding Room Condition : CE LINE Job No. : 1243CR Test Mode : Charge + TX

	Freq	Cable Loss 1		Read Level			Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15816	0.02	9.59	38.38	47.99	55.56	-7.57	Peak
2	0.19863	0.02	9.60	34.78	44.40	53.67	-9.27	Peak
3	0.30998	0.01	9.59	32.92	42.52	49.97	-7.45	Peak
4 @	0.63383	0.02	9.61	30.29	39.92	46.00	-6.08	Peak
5	1.269	0.02	9.60	23.96	33.58	46.00	-12.42	Peak
6	7.252	0.01	9.68	25.43	35.12	50.00	-14.88	Peak

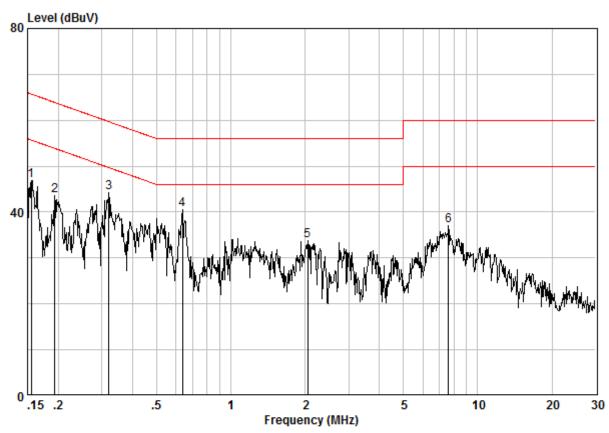




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Neutral Line:



Site : Shielding Room Condition : CE NEUTRAL Job No. : 1243CR Test Mode : Charge + TX

	Freq		LISN Factor				Over Limit	
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15567	0.02	9.61	37.29	46.92	55.69	-8.77	Peak
2	0.19344	0.02	9.62	33.94	43.57	53.89	-10.32	Peak
3 @	0.31999	0.01	9.62	34.71	44.34	49.71	-5.36	Peak
4 @	0.63720	0.02	9.63	30.81	40.45	46.00	-5.55	Peak
5	2.044	0.02	9.66	24.04	33.72	46.00	-12.28	Peak
6	7.606	0.01	9.75	27.37	37.13	50.00	-12.87	Peak

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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6.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)		
Test Method:	ANSI C63.10 2013		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.		
Test Instruments:	Refer to section 5.10 for details		
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates		
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;		
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)		
Limit:	30dBm		
Test Results:	Pass		



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Pre-scan und	Pre-scan under all rate at lowest channel 1							
Mode		802	.11b			_		
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	5.83	5.81	5.79	5.77				
Mode				802	2.11g			
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	8.15	8.13	8.11	8.09	8.08	8.06	8.04	8.01
Mode				802.11	n(HT20)			
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	7.04	7.02	6.99	6.97	6.94	6.92	6.90	6.88
Mode	802.11n(HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power (dBm)	7.45	7.43	7.40	7.38	7.36	7.33	7.30	7.28

Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).



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Measurement Data

	802.11b mo	de				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	5.83	30.00	Pass			
Middle	6.20	30.00	Pass			
Highest	6.45	30.00	Pass			
	802.11g mo	de				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	8.15	30.00	Pass			
Middle	8.37	30.00	Pass			
Highest	8.02	30.00	Pass			
	802.11n(HT20)	mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	7.04	30.00	Pass			
Middle	7.27	30.00	Pass			
Highest	7.65	30.00	Pass			
	802.11n(HT40)mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	7.45	30.00	Pass			
Middle	7.53	30.00	Pass			
Highest	7.31	30.00	Pass			



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Test plot as follows:





Test mode: 802.11b Test channel: Middle





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Test mode: 802.11b Test channel: Highest



Test mode: 802.11g Test channel: Lowest





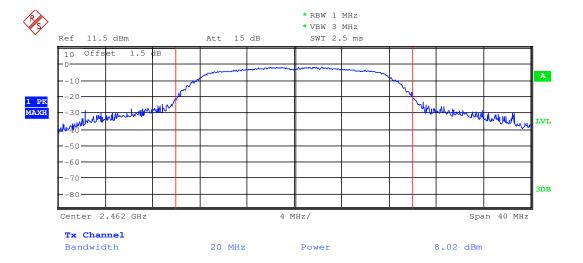
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Test mode: 802.11g Test channel: Highest

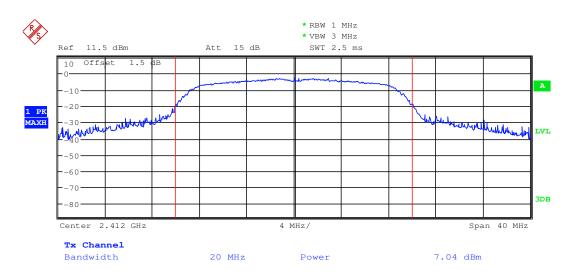




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Test mode: 802.11n(HT20) Test channel: Lowest



Test mode:	802.11n(HT20)	Test channel:	Middle
	\ /		





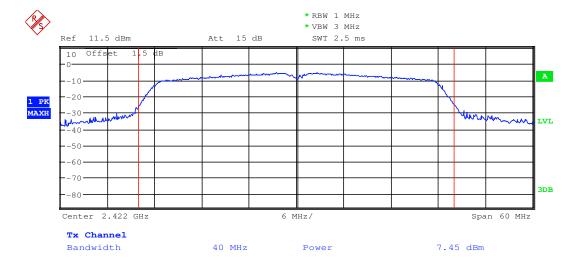
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Test mode: 802.11n(HT20) Test channel: Highest





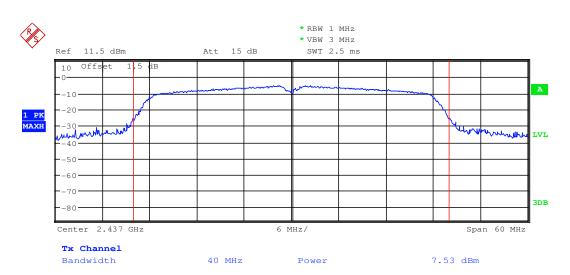




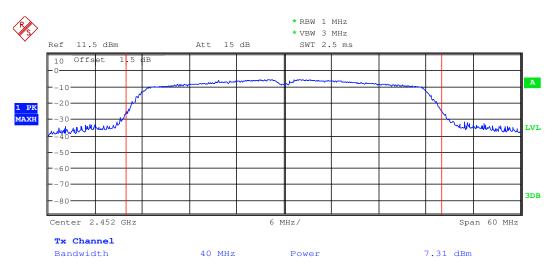
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Test mode: 802.11n(HT40) Test channel: Middle



Test mode:	802.11n(HT40)	Test channel:	Highest
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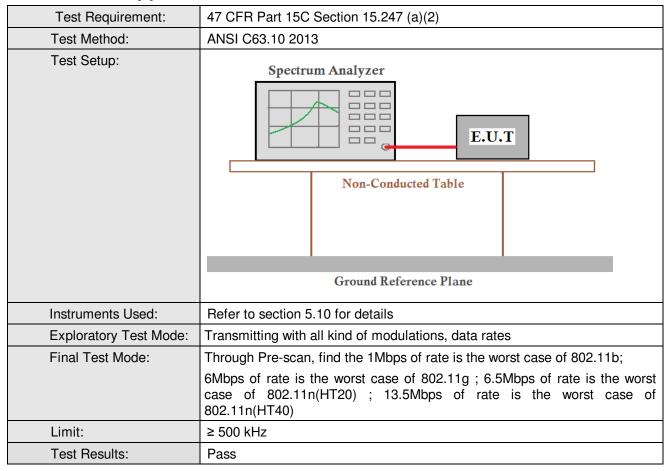




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6.4 6dB Occupy Bandwidth





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Measurement Data

leasurement Data					
	802.11b mode				
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result		
Lowest	9.12	≥500	Pass		
Middle	10.08	≥500	Pass		
Highest	9.63	≥500	Pass		
	802.11g mode				
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result		
Lowest	15.18	≥500	Pass		
Middle	15.18	≥500	Pass		
Highest	15.18	≥500	Pass		
	802.11n(HT20) mode				
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result		
Lowest	15.18	≥500	Pass		
Middle	15.15	≥500	Pass		
Highest	15.18	≥500	Pass		
802.11n(HT40)mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result		
Lowest	16.24	≥500	Pass		
Middle	36.00	≥500	Pass		
Highest	36.24	≥500	Pass		
	•				

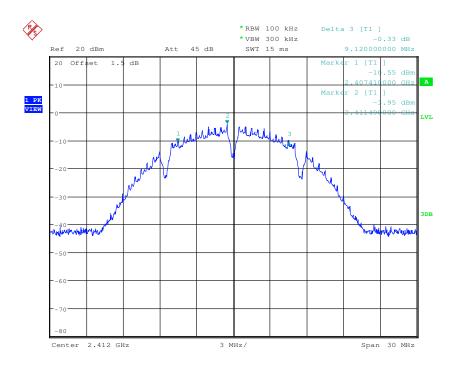


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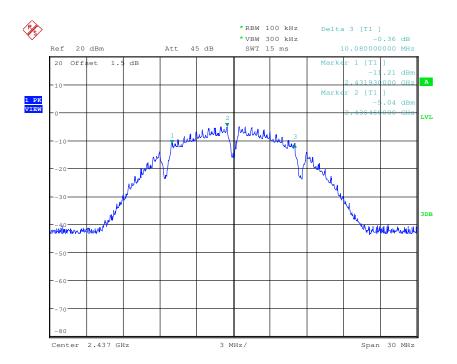
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Test plot as follows:





Test mode: 802.11b Test channel: Middle

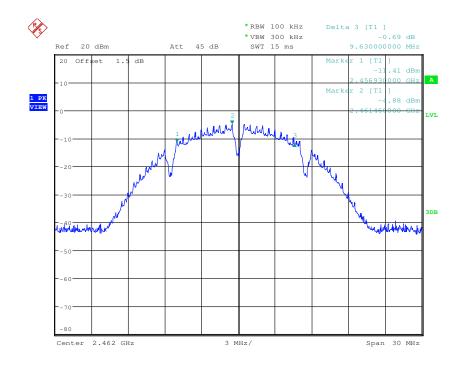




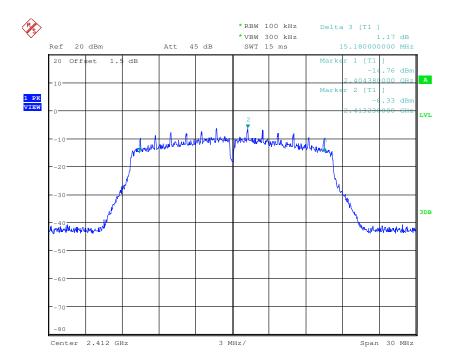
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Test mode: 802.11b Test channel: Highest





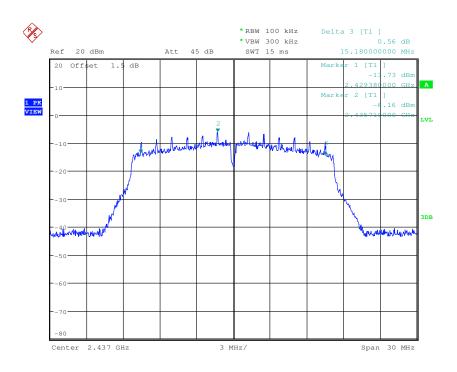




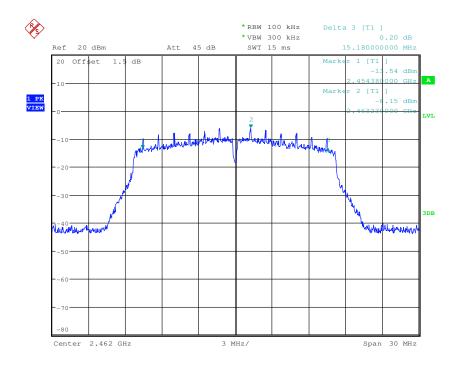
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Test mode: 802.11g Test channel: Middle





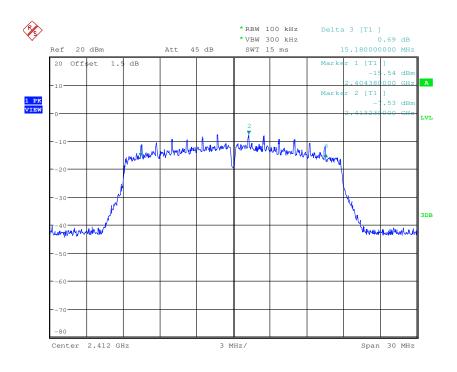




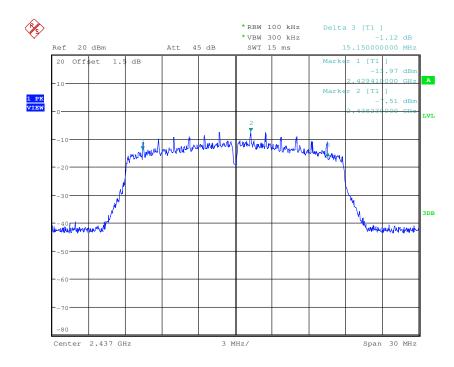
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Test mode: 802.11n(HT20) Test channel: Lowest





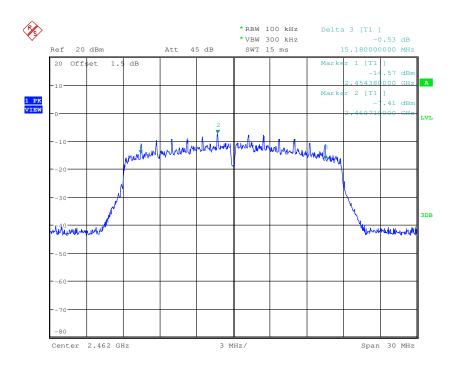




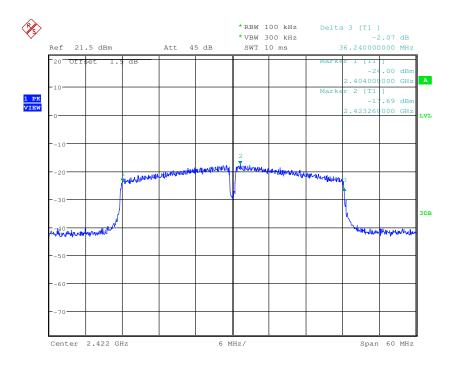
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Test mode: 802.11n(HT20) Test channel: Highest





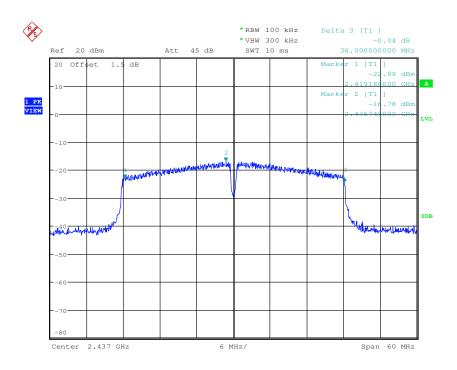


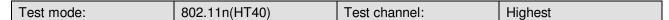


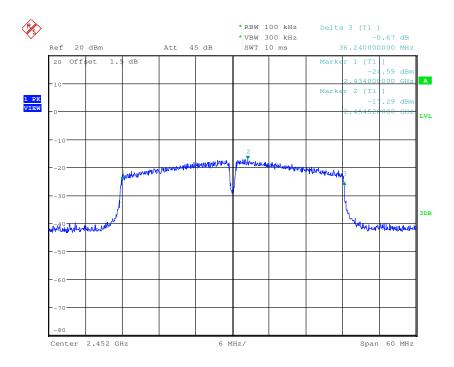
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Test mode: 802.11n(HT40) Test channel: Middle









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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)		
Test Method:	ANSI C63.10 2013		
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.		
Test Instruments:	Refer to section 5.10 for details		
Exploratory Test Mode:			
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;		
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)		
Limit:	≤8.00dBm/3kHz		
Test Results:	Pass		



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Measurement Data

Weasurement Data			
802.11b mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-24.57	≤8.00	Pass
Middle	-23.14	≤8.00	Pass
Highest	-22.78	≤8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-21.43	≤8.00	Pass
Middle	-24.09	≤8.00	Pass
Highest	-22.74	≤8.00	Pass
802.11n(HT20) mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-23.48	≤8.00	Pass
Middle	-24.09	≤8.00	Pass
Highest	-24.54	≤8.00	Pass
802.11n(HT40) mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-29.79	≤8.00	Pass
Middle	-28.40	≤8.00	Pass
Highest	-29.25	≤8.00	Pass



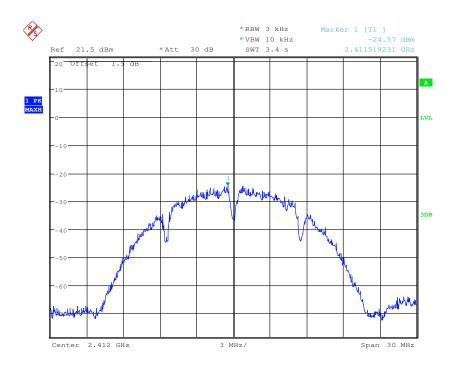


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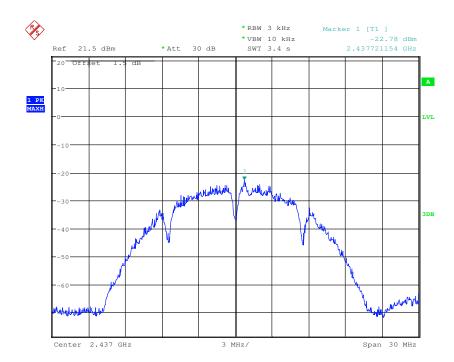
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest



Test mode: 802.11b Test channel: Middle

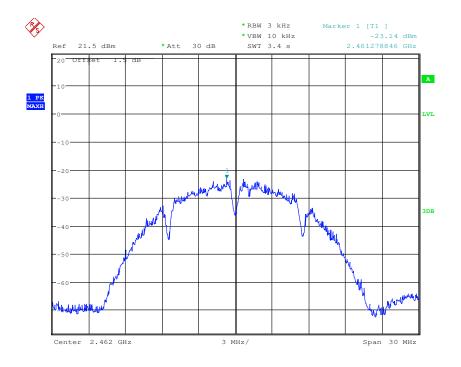




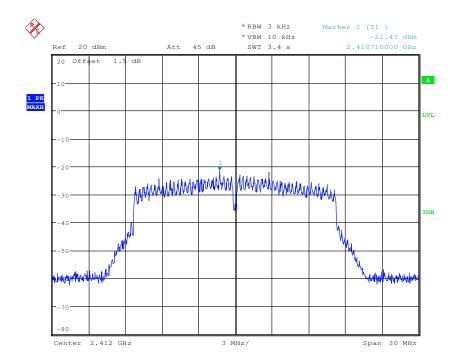
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Test mode: 802.11b Test channel: Highest





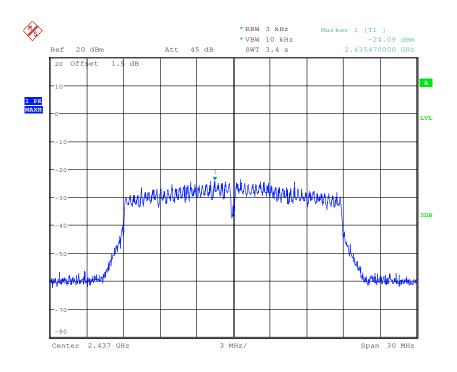




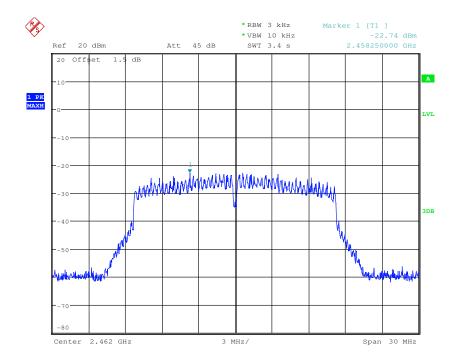
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Test mode: 802.11g Test channel: Middle





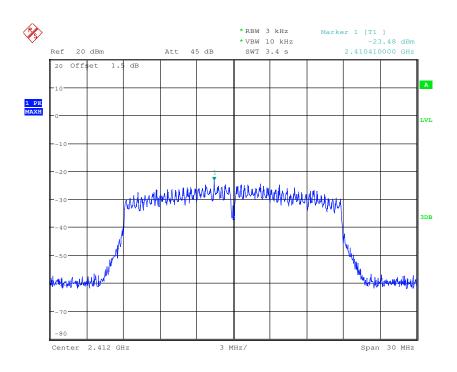




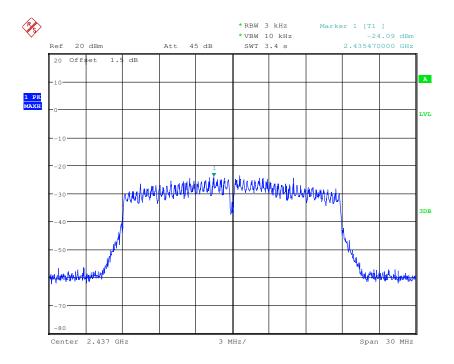
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Test mode: 802.11n(HT20) Test channel: Lowest





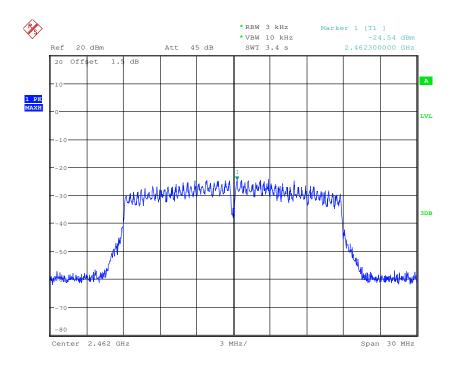


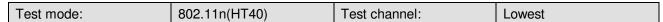


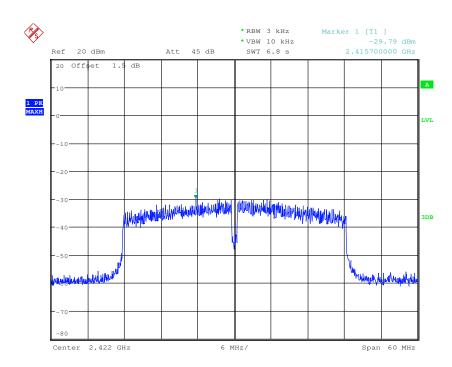
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Test mode: 802.11n(HT20) Test channel: Highest





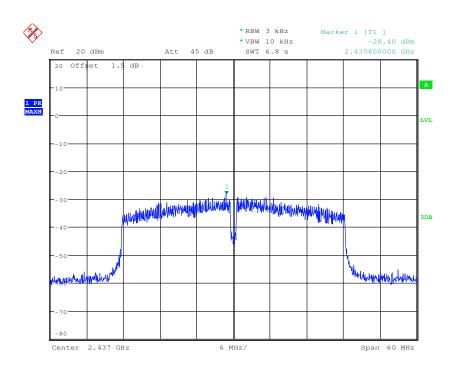




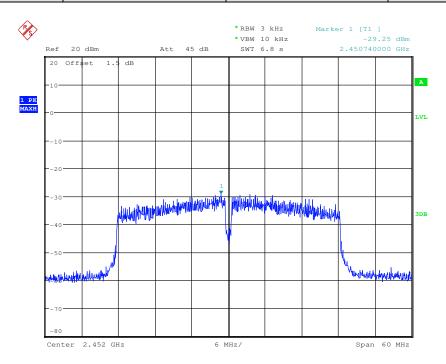
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Test mode: 802.11n(HT40) Test channel: Middle









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6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread
	spectrum intentional radiator is operating, the radio frequency power that is
	produced by the intentional radiator shall be at least 20 dB below that in the
	100 kHz bandwidth within the band that contains the highest level of the
	desired power, based on either an RF conducted or a radiated
	measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

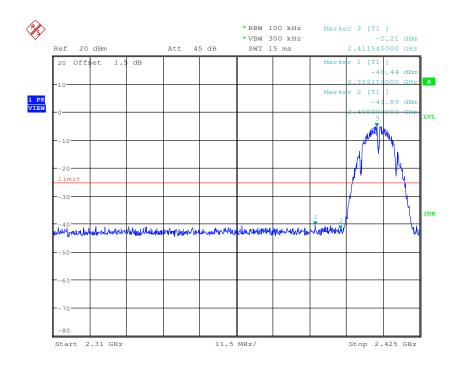


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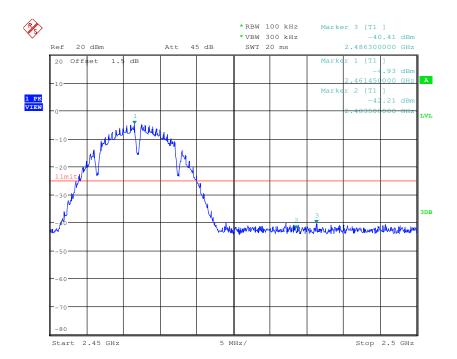
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest





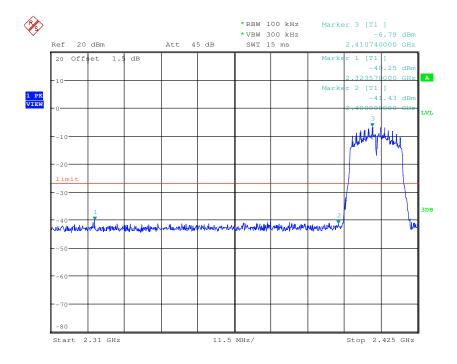




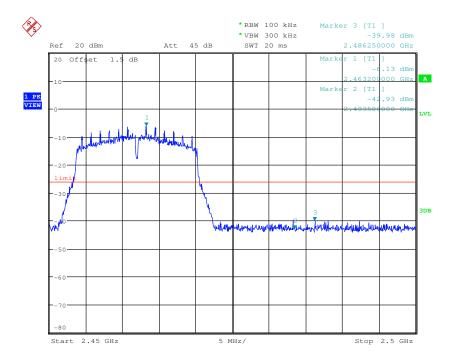
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Test mode: 802.11g Test channel: Lowest





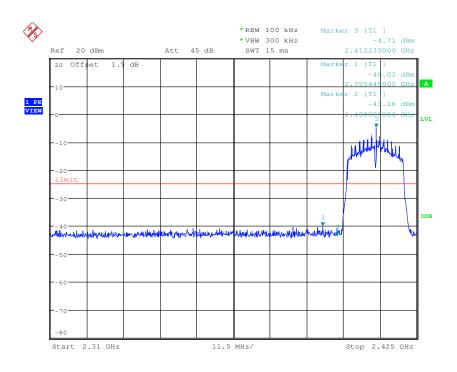




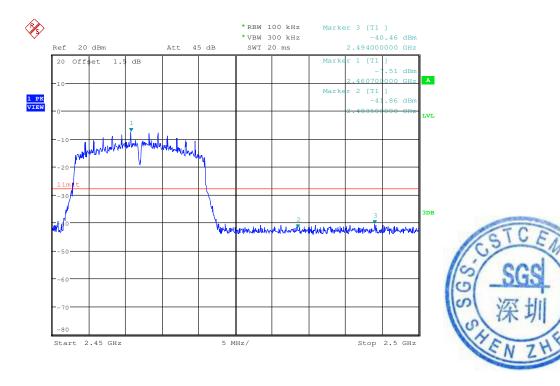
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Test mode: 802.11n(HT20) Test channel: Lowest





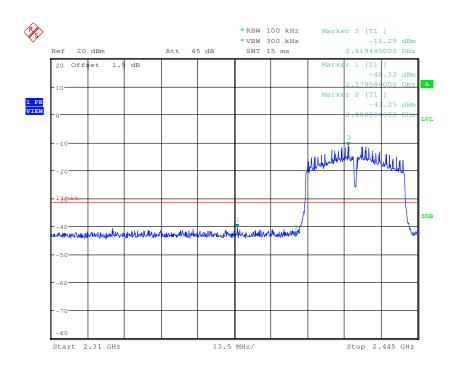




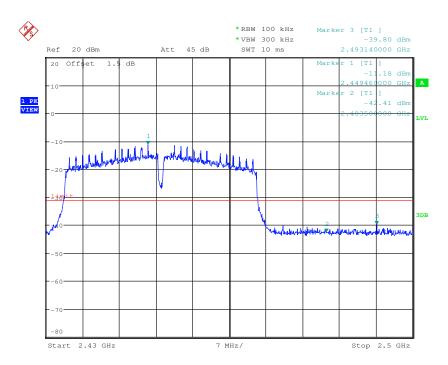
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Test mode: 802.11n(HT40) Test channel: Lowest









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6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:
Exploratory Test Mode:	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread
	spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

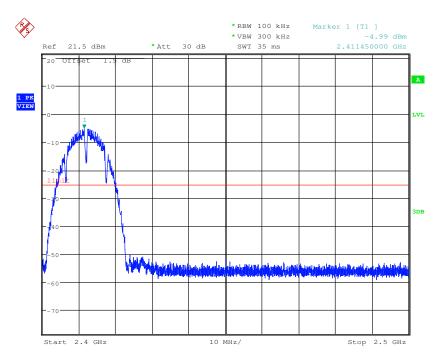


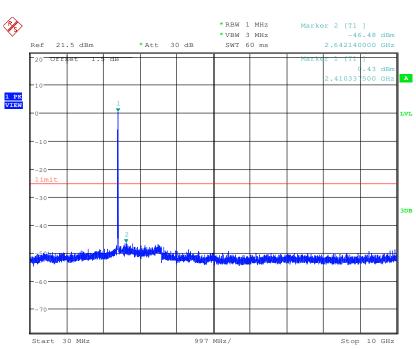
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Test plot as follows:

Test mode: 802.11b Test channel: Lowest

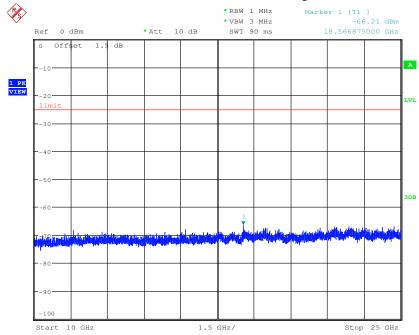




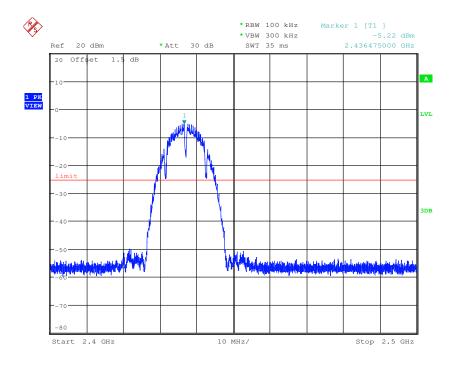


Report No.: SZEM160300124301



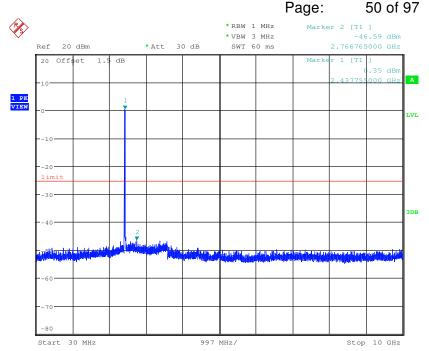


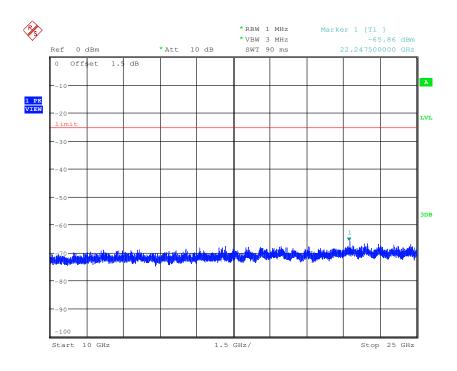






Report No.: SZEM160300124301



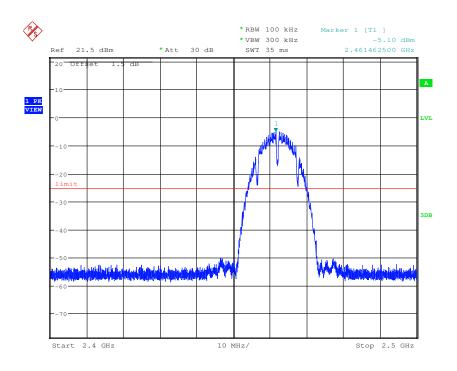


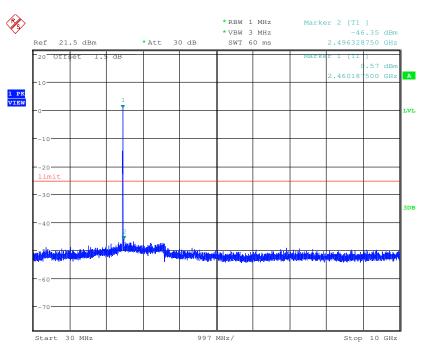


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Test mode: 802.11b Test channel: Highest

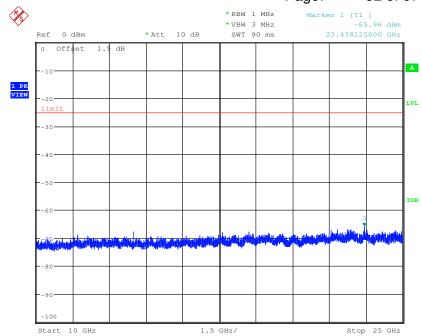




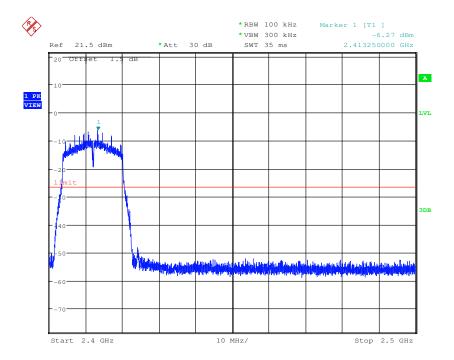


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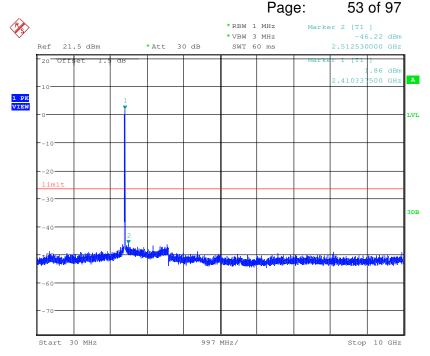


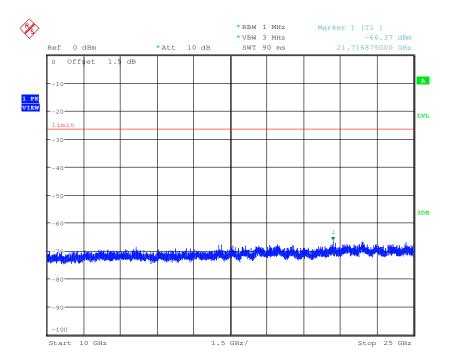
Test mode: 802.11g Test channel: Lowest





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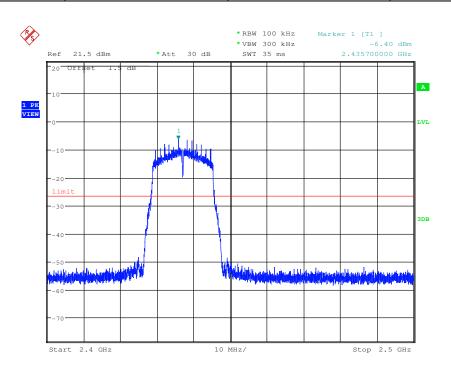


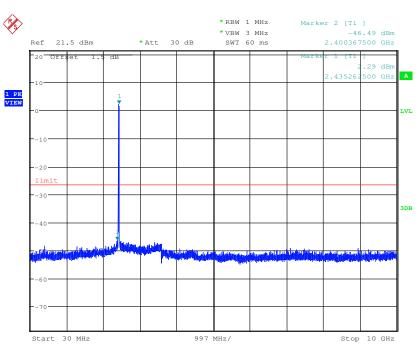


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Test mode: 802.11g Test channel: Middle

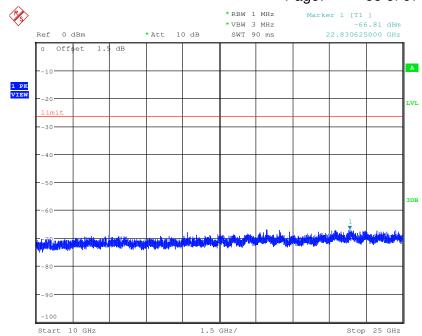




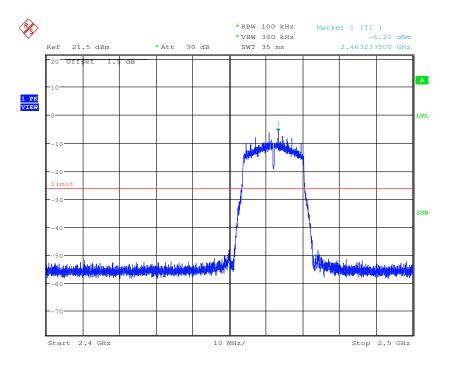


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Test mode: 802.11g Test channel: Highest

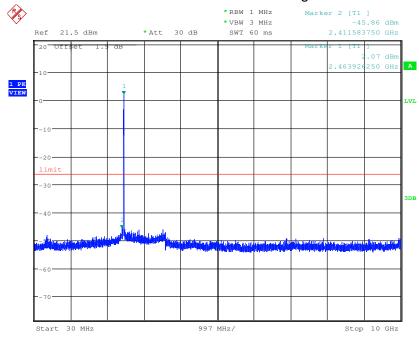


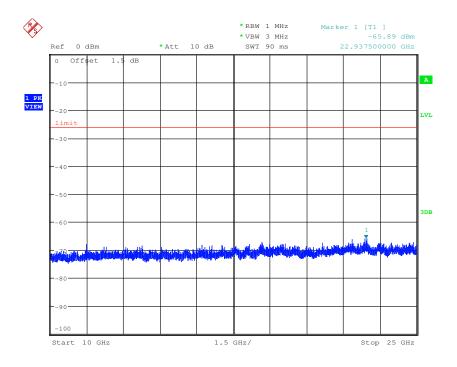




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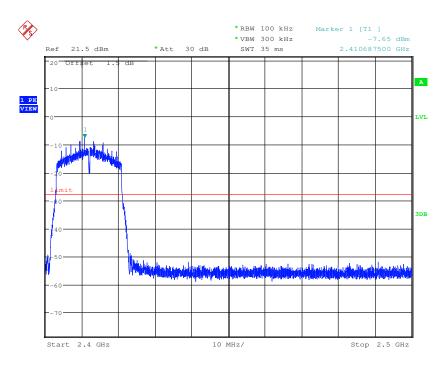


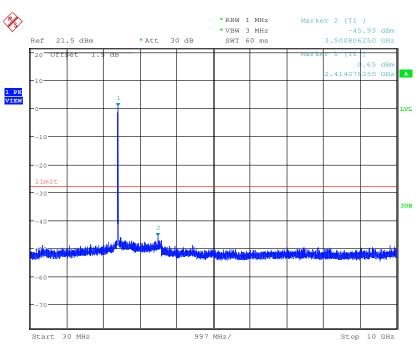


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Test mode: 802.11n(HT20) Test channel: Lowest

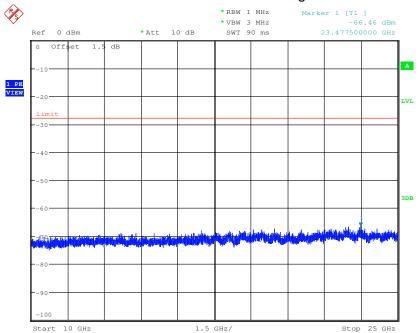




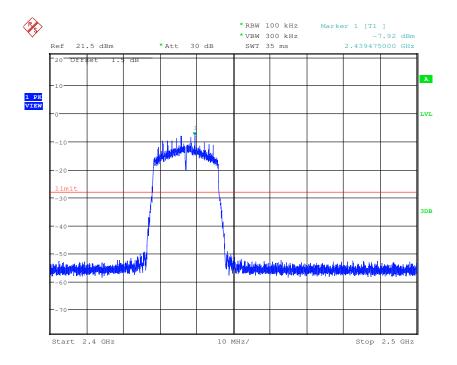


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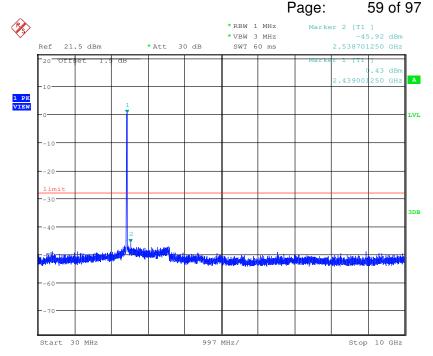


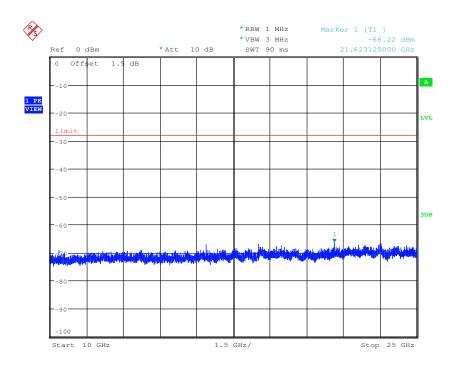






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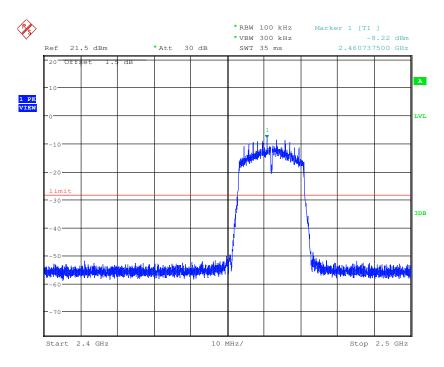


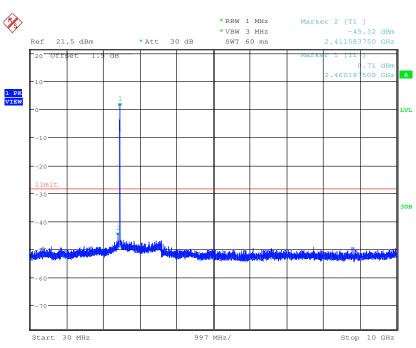


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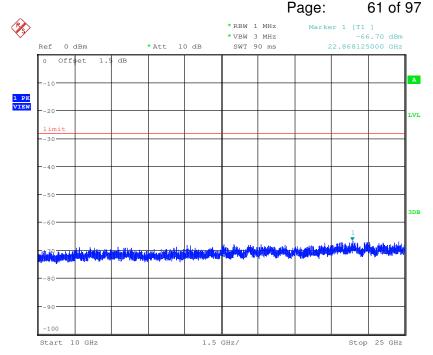
Test mode: 802.11n(HT20) Test channel: Highest



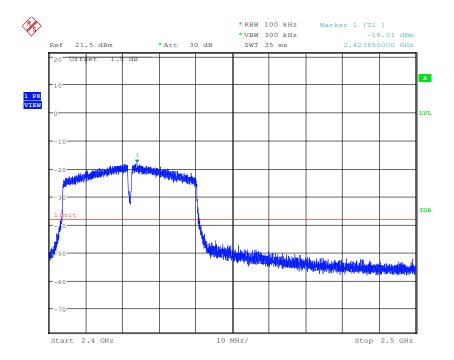




Report No.: SZEM160300124301

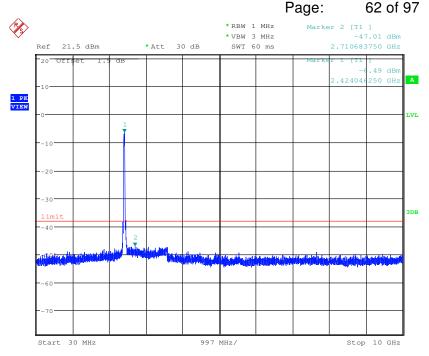


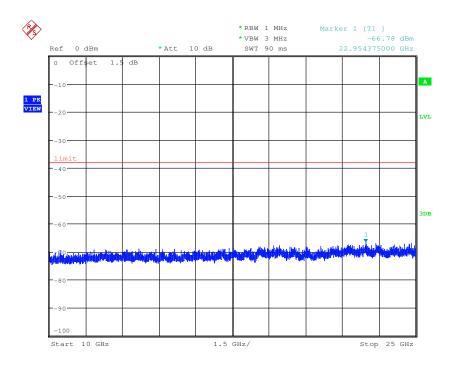






Report No.: SZEM160300124301



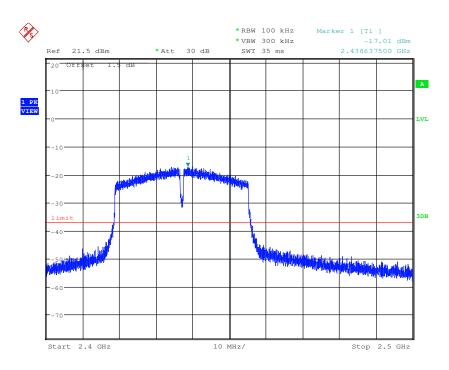


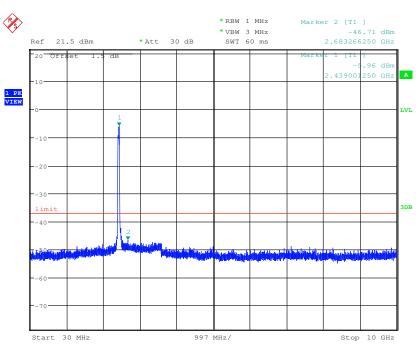


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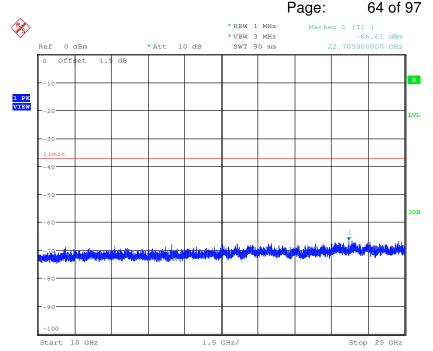
Test mode: 802.11n(HT40) Test channel: Middle



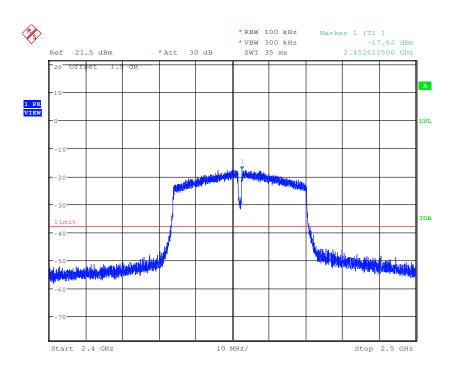




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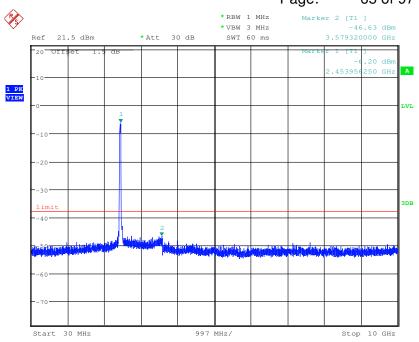


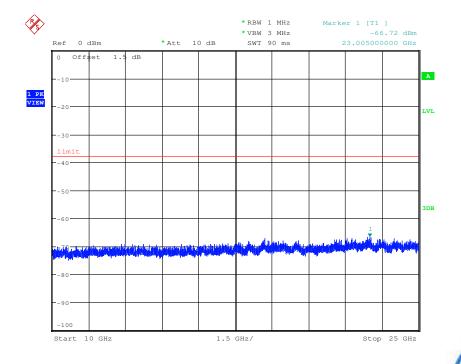




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Remark:

Use 100kHz RBW to determine the relative limit in the band 2.4GHz to 2.5GHz, and Use 1MHz RBW to measure spurious emissions in the band 30MHz to 10GHz and 10GHz to 25GHz. The sweep points set to 30001.



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6.8 Radiated Spurious Emissions

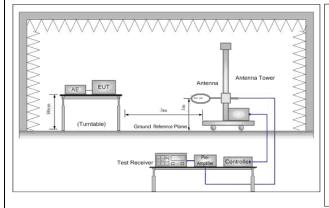
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark				
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak				
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average				
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak				
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average				
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak				
	Above 1GHz	Peak	1MHz	3MHz	Peak				
	Above IGHZ	Peak	1MHz	10Hz	Average				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30				
	1.705MHz-30MHz	30	-	-	30				
	30MHz-88MHz	100	40.0	Quasi-peak	3				
	88MHz-216MHz	150	43.5	Quasi-peak	3				
	216MHz-960MHz	200	46.0	Quasi-peak	3				
	960MHz-1GHz	500	54.0	Quasi-peak	3				
	Above 1GHz	500	54.0	Average	3				
	Note: 15.35(b), Unless of	-		-					
	emissions is 20dB		-	_					
	applicable to the equipment under test. This peak limit applies to the total peak								
	emission level rad	iated by the device	Э.						



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Test Setup:



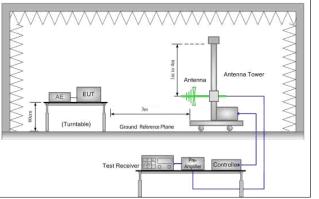


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

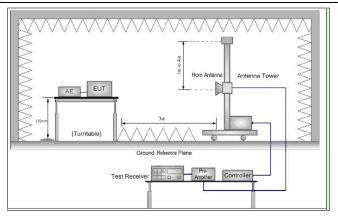


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



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	g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.						
	 h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel 						
	The radiation measurements are performed in X, Y, Z axis positioning. Transmitting mode, And found the X axis positioning which it is wor case.						
	j. Repeat above procedures until all frequencies measured was complete.						
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.						
	Transmitting mode, Charge + Transmitting mode.						
Final Test Mode:	Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case						
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;						
	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case						
	of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40)						
	For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.						
	Only the worst case is recorded in the report.						
Instruments Used:	Refer to section 5.10 for details						
Test Results:	Pass						

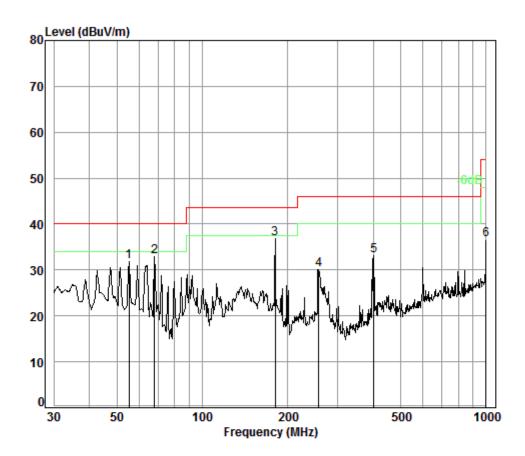


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6.8.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Charge + Transmitting	Vertical



Condition: 3m Vertical

Job No. : 1243CR Test mode: Charge+TX

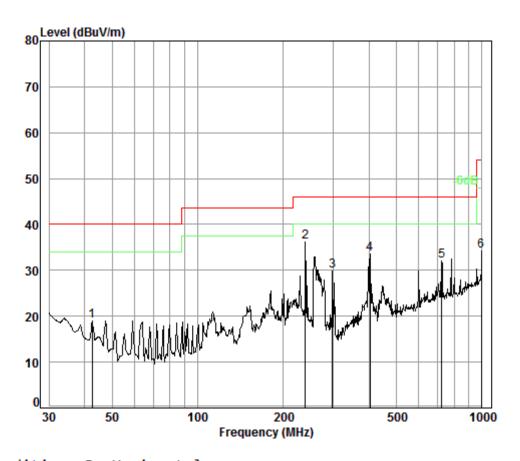
	Freq			Preamp Factor				Over Limit
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	55.22	0.80	7.97	25.95	49.01	31.83	40.00	-8.17
2	67.91	0.80	6.96	25.93	51.10	32.93	40.00	-7.07
3 рр	180.65	1.37	9.91	25.79	51.34	36.83	43.50	-6.67
4	257.42	1.71	12.35	25.73	41.77	30.10	46.00	-15.90
5	401.84	2.21	16.39	25.66	40.12	33.06	46.00	-12.94
6	1000.00	3.70	24.10	24.40	33.26	36.66	54.00	-17.34



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Test mode: Charge + Transmitting Horizontal



Condition: 3m Horizontal

Job No. : 1243CR Test mode: Charge+TX

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	42.60	0.66	11.99	25.97	32.18	18.86	40.00	-21.14
2 pp	239.15	1.62	11.86	25.74	48.42	36.16	46.00	-9.84
3	298.27	1.89	13.54	25.70	40.05	29.78	46.00	-16.22
4	403.25	2.21	16.39	25.66	40.69	33.63	46.00	-12.37
5	721.73	2.97	21.61	25.73	33.14	31.99	46.00	-14.01
6	996.50	3.70	24.04	24.42	30.88	34.20	54.00	-19.80



Test mode:

5999.562

7311.000

9748.000

12603.270

34.70

35.54

37.10

37.90

10.56

10.72

12.58

14.44

38.96

37.59

36.16

37.75

802.11b

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Remark:

74

74

74

74

-22.44

-21.09

-21.94

-20.74

Horizontal

Horizontal

Horizontal

Horizontal

Peak

6.8.2 Transmitter emission above 1GHz

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak
------------	---------	---------------	--------	---------	------

Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	45.10	47.14	74	-26.86	Vertical
4824.000	34.12	8.90	38.75	49.05	53.32	74	-20.68	Vertical
5999.562	34.70	10.56	38.96	45.62	51.92	74	-22.08	Vertical
7236.000	35.58	10.69	37.63	42.43	51.07	74	-22.93	Vertical
9648.000	37.10	12.52	36.29	35.21	48.54	74	-25.46	Vertical
12603.270	37.90	14.44	37.75	38.18	52.77	74	-21.23	Vertical
3610.398	32.14	7.67	38.41	45.52	46.92	74	-27.08	Horizontal
4824.000	34.12	8.90	38.75	49.49	53.76	74	-20.24	Horizontal
5982.226	34.66	10.51	38.96	45.08	51.29	74	-22.71	Horizontal
7236.000	35.58	10.69	37.63	41.16	49.80	74	-24.20	Horizontal
9648.000	37.10	12.52	36.29	35.58	48.91	74	-25.09	Horizontal
12639.790	37.92	14.55	37.79	38.95	53.63	74	-20.37	Horizontal

Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3652.432	32.31	7.69	38.43	45.54	47.11	74	-26.89	Vertical
4874.000	34.17	8.97	38.76	49.24	53.62	74	-20.38	Vertical
6069.413	34.74	10.47	38.87	44.87	51.21	74	-22.79	Vertical
7311.000	35.54	10.72	37.59	44.11	52.78	74	-21.22	Vertical
9748.000	37.10	12.58	36.16	38.73	52.25	74	-21.75	Vertical
12530.530	37.83	14.24	37.68	39.12	53.51	74	-20.49	Vertical
3694.956	32.49	7.70	38.44	44.12	45.87	74	-28.13	Horizontal
4874.000	34.17	8.97	38.76	48.41	52.79	74	-21.21	Horizontal

45.26

44.24

38.54

38.67

51.56

52.91

52.06

53.26

Middle

Test channel:



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	Test mode:	802.1	10	l est ch	annel:	Highest	Remark	:	Реак	
г	1		ı	1	ı		1	1	I	
		Antenna	Cable	Preamo	Read			Over		

					T	T		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	44.86	46.90	74	-27.10	Vertical
4924.000	34.22	9.04	38.77	48.62	53.11	74	-20.89	Vertical
5999.562	34.70	10.56	38.96	45.54	51.84	74	-22.16	Vertical
7386.000	35.51	10.75	37.56	43.75	52.45	74	-21.55	Vertical
9848.000	37.15	12.63	36.03	39.57	53.32	74	-20.68	Vertical
12566.850	37.87	14.34	37.72	38.18	52.67	74	-21.33	Vertical
3825.521	32.93	7.75	38.49	44.68	46.87	74	-27.13	Horizontal
4924.000	34.22	9.04	38.77	47.75	52.24	74	-21.76	Horizontal
6034.386	34.72	10.52	38.91	45.66	51.99	74	-22.01	Horizontal
7386.000	35.51	10.75	37.56	43.80	52.50	74	-21.50	Horizontal
9848.000	37.15	12.63	36.03	39.50	53.25	74	-20.75	Horizontal
12566.850	37.87	14.34	37.72	37.68	52.17	74	-21.83	Horizontal

Test mode:	e: 802.11g		Test channel:		Lowest	Remark	:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3825.521	32.93	7.75	38.49	45.31	47.50	74	-26.50	Vertical
4824.000	34.12	8.90	38.75	47.50	51.77	74	-22.23	Vertical
6104.642	34.75	10.42	38.82	45.35	51.70	74	-22.30	Vertical
7236.000	35.58	10.69	37.63	42.76	51.40	74	-22.60	Vertical
9648.000	37.10	12.52	36.29	36.74	50.07	74	-23.93	Vertical
12530.530	37.83	14.24	37.68	38.54	52.93	74	-21.07	Vertical
3803.444	32.90	7.74	38.49	45.59	47.74	74	-26.26	Horizontal
4824.000	34.12	8.90	38.75	46.23	50.50	74	-23.50	Horizontal
5879.252	34.40	10.22	38.94	45.98	51.66	74	-22.34	Horizontal
7236.000	35.58	10.69	37.63	42.01	50.65	74	-23.35	Horizontal
9648.000	37.10	12.52	36.29	34.92	48.25	74	-25.75	Horizontal
12639.790	37.92	14.55	37.79	38.85	53.53	74	-20.47	Horizontal



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Test mode: 802.11g Test channel: Middle Remark:	Peak
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Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3847.726	32.95	7.76	38.50	44.76	46.97	74	-27.03	Vertical
4874.000	34.17	8.97	38.76	46.57	50.95	74	-23.05	Vertical
6087.002	34.74	10.45	38.85	45.34	51.68	74	-22.32	Vertical
7311.000	35.54	10.72	37.59	42.97	51.64	74	-22.36	Vertical
9748.000	37.10	12.58	36.16	38.90	52.42	74	-21.58	Vertical
12603.270	37.90	14.44	37.75	38.80	53.39	74	-20.61	Vertical
3903.804	33.01	7.78	38.52	45.69	47.96	74	-26.04	Horizontal
4874.000	34.17	8.97	38.76	45.55	49.93	74	-24.07	Horizontal
6104.642	34.75	10.42	38.82	45.78	52.13	74	-21.87	Horizontal
7311.000	35.54	10.72	37.59	41.56	50.23	74	-23.77	Horizontal
9748.000	37.10	12.58	36.16	40.18	53.70	74	-20.30	Horizontal
12566.850	37.87	14.34	37.72	38.80	53.29	74	-20.71	Horizontal

Test mode:	802.1	1g	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	nit Line BuV/m)	Over Limit (dB)	Polarization
3792.453	32.87	7.74	38.48	45.21	47.34	74	-26.66	Vertical
4924.000	34.22	9.04	38.77	46.73	51.22	74	-22.78	Vertical
6087.002	34.74	10.45	38.85	45.02	51.36	74	-22.64	Vertical
7386.000	35.51	10.75	37.56	40.20	48.90	74	-25.10	Vertical
9848.000	37.15	12.63	36.03	38.79	52.54	74	-21.46	Vertical
12530.530	37.83	14.24	37.68	38.88	53.27	74	-20.73	Vertical
3858.877	32.96	7.76	38.51	45.07	47.28	74	-26.72	Horizontal
4924.000	34.22	9.04	38.77	45.94	50.43	74	-23.57	Horizontal
6104.642	34.75	10.42	38.82	45.79	52.14	74	-21.86	Horizontal
7386.000	35.51	10.75	37.56	39.72	48.42	74	-25.58	Horizontal
9848.000	37.15	12.63	36.03	39.65	53.40	74	-20.60	Horizontal
12603.270	37.90	14.44	37.75	37.87	52.46	 74	-21.54	Horizontal



5999.562

7236.000

9648.000

12676.420

34.70

35.58

37.10

37.94

10.56

10.69

12.52

14.65

38.96

37.63

36.29

37.82

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Horizontal

Horizontal

Horizontal

Horizontal

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74

74

74

74

-21.77

-23.71

-26.68

-21.18

Test mode:	802	11n(HT20)	Test ch	annel:	Lowest	Remark	:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	45.55	47.59	74	-26.41	Vertical
4824.000	34.12	8.90	38.75	45.22	49.49	74	-24.51	Vertical
6087.002	34.74	10.45	38.85	46.14	52.48	74	-21.52	Vertical
7236.000	35.58	10.69	37.63	45.06	53.70	74	-20.30	Vertical
9648.000	37.10	12.52	36.29	34.63	47.96	74	-26.04	Vertical
12566.850	37.87	14.34	37.72	38.42	52.91	74	-21.09	Vertical
3803.444	32.90	7.74	38.49	44.84	46.99	74	-27.01	Horizontal
4824.000	34.12	8.90	38.75	46.35	50.62	74	-23.38	Horizontal

52.23

50.29

47.32

52.82

45.93

41.65

33.99

38.05

Test mode:	802.	11n(HT20)	Test ch	annel:	Middle	Remark	-	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	mit Line BuV/m)	Over Limit (dB)	Polarization
3814.467	32.91	7.75	38.49	45.44	47.61	74	-26.39	Vertical
4874.000	34.17	8.97	38.76	45.61	49.99	74	-24.01	Vertical
6051.874	34.73	10.49	38.89	44.91	51.24	74	-22.76	Vertical
7311.000	35.54	10.72	37.59	44.56	53.23	74	-20.77	Vertical
9748.000	37.10	12.58	36.16	39.30	52.82	74	-21.18	Vertical
12603.270	37.90	14.44	37.75	38.56	53.15	74	-20.85	Vertical
3803.444	32.90	7.74	38.49	45.09	47.24	74	-26.76	Horizontal
4874.000	34.17	8.97	38.76	45.33	49.71	74	-24.29	Horizontal
6104.642	34.75	10.42	38.82	44.89	51.24	74	-22.76	Horizontal
7311.000	35.54	10.72	37.59	44.32	52.99	74	-21.01	Horizontal
9748.000	37.10	12.58	36.16	39.24	52.76	74	-21.24	Horizontal
12676.420	37.94	14.65	37.82	39.02	53.79	74	-20.21	Horizontal



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Test mode: 802.11n(HT20) Test channel: Highest Remark: Peak	
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Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3803.444	32.90	7.74	38.49	44.80	46.95	74	-27.05	Vertical
4924.000	34.22	9.04	38.77	47.08	51.57	74	-22.43	Vertical
5999.562	34.70	10.56	38.96	45.67	51.97	74	-22.03	Vertical
7386.000	35.51	10.75	37.56	44.86	53.56	74	-20.44	Vertical
9848.000	37.15	12.63	36.03	39.39	53.14	74	-20.86	Vertical
12676.420	37.94	14.65	37.82	38.20	52.97	74	-21.03	Vertical
3814.467	32.91	7.75	38.49	44.51	46.68	74	-27.32	Horizontal
4924.000	34.22	9.04	38.77	46.62	51.11	74	-22.89	Horizontal
6016.949	34.71	10.54	38.94	44.75	51.06	74	-22.94	Horizontal
7386.000	35.51	10.75	37.56	41.16	49.86	74	-24.14	Horizontal
9848.000	37.15	12.63	36.03	39.21	52.96	74	-21.04	Horizontal
12603.270	37.90	14.44	37.75	38.37	52.96	74	-21.04	Horizontal

TOST HIDGE.	002.1	111(11170)	1 031 011	aririor.	LOWCSI	ricinari	•	1 Car
	·	·			·	·	·	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3903.804	33.01	7.78	38.52	45.09	47.36	74	-26.64	Vertical
4844.000	34.14	8.92	38.76	45.85	50.15	74	-23.85	Vertical
6069.413	34.74	10.47	38.87	44.95	51.29	74	-22.71	Vertical
7266.000	35.57	10.70	37.61	40.21	48.87	74	-25.13	Vertical
9688.000	37.10	12.54	36.24	35.22	48.62	74	-25.38	Vertical
12603.270	37.90	14.44	37.75	38.73	53.32	74	-20.68	Vertical
3487.175	31.93	7.63	38.36	46.46	47.66	74	-26.34	Horizontal
4844.000	34.14	8.92	38.76	45.42	49.72	74	-24.28	Horizontal
6087.002	34.74	10.45	38.85	45.34	51.68	74	-22.32	Horizontal
7266.000	35.57	10.70	37.61	41.17	49.83	74	-24.17	Horizontal
9688.000	37.10	12.54	36.24	35.26	48.66	74	-25.34	Horizontal
12676.420	37.94	14.65	37.82	37.52	52.29	74	-21.71	Horizontal S

802.11n(HT40) | Test channel: | Lowest



3825.521

4874.000

6034.386

7311.000

9748.000

12603.270

32.93

34.17

34.72

35.54

37.10

37.90

7.75

8.97

10.52

10.72

12.58

14.44

38.49

38.76

38.91

37.59

36.16

37.75

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74

74

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74

-26.83

-24.29

-22.41

-23.84

-21.55

-21.81

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

Test mode:		802.1	1n(HT40)	Test ch	annel:	Middle	Remar	k:	Peak
Frequency (MHz)	Fac	enna ctor 3/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3858.877	32.	.96	7.76	38.51	44.85	47.06	74	-26.94	Vertical
4874.000	34.	.17	8.97	38.76	45.55	49.93	74	-24.07	Vertical
5999.562	34.	.70	10.56	38.96	44.93	51.23	74	-22.77	Vertical
7311.000	35	.54	10.72	37.59	41.60	50.27	74	-23.73	Vertical
9748.000	37.	.10	12.58	36.16	37.89	51.41	74	-22.59	Vertical
12603.270	37	.90	14.44	37.75	38.48	53.07	74	-20.93	Vertical
					1		·		· · · · · · · · · · · · · · · · · · ·

47.17

49.71

51.59

50.16

52.45

52.19

44.98

45.33

45.26

41.49

38.93

37.60

Test mode: 802.1		.11n(HT40)	Test ch	annel:	Highest	Remark	:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3770.567	32.78	7.73	38.47	45.08	47.12	74	-26.88	Vertical
4904.000	34.21	9.01	38.77	45.83	50.28	74	-23.72	Vertical
6087.002	34.74	10.45	38.85	45.08	51.42	74	-22.58	Vertical
7356.000	35.52	10.74	37.57	39.72	48.41	74	-25.59	Vertical
9808.000	37.11	12.61	36.08	39.19	52.83	74	-21.17	Vertical
12639.790	37.92	14.55	37.79	38.75	53.43	74	-20.57	Vertical
3814.467	32.91	7.75	38.49	44.40	46.57	74	-27.43	Horizontal
4904.000	34.21	9.01	38.77	45.83	50.28	74	-23.72	Horizontal
6140.076	34.77	10.38	38.78	45.20	51.57	74	-22.43	Horizontal
7356.000	35.52	10.74	37.57	39.38	48.07	74	-25.93	Horizontal
9808.000	37.11	12.61	36.08	40.03	53.67	74	-20.33	Horizontal
12639.790	37.92	14.55	37.79	39.04	53.72	74	-20.28	Horizontal



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Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

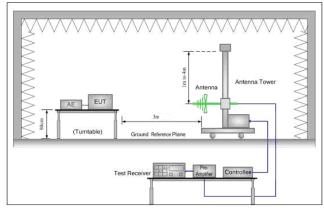


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6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Limit:	Frequency	Limit (dBuV/m @3m)	Remark						
	30MHz-88MHz	40.0	Quasi-peak Value						
	88MHz-216MHz	43.5	Quasi-peak Value						
	216MHz-960MHz	46.0	Quasi-peak Value						
	960MHz-1GHz	54.0	Quasi-peak Value						
	Above 1GHz	54.0	Average Value						
	Above IGHZ	74.0	Peak Value						
Test Setup:									



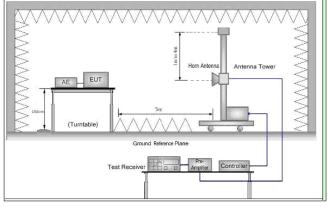


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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Test Procedure: a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and then the antenna was tuned to heights from 1 meter to 4 meters and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode. Pretest the EUT at Transmitting mode and Charge + Transmitting mode, found the Cha							
1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Final Test Mode: Final Test Mode: Final Test Mode: Final Test the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11p; 6Mbps of rate is the worst case of 802.11n (HT40) Only the worst case is recorded in the report.	Test Procedure:	meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest					
antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode. Final Test Mode: Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report.		1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest					
ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode. Final Test Mode: Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11n; (HT40) Only the worst case is recorded in the report.		antenna, which was mounted on the top of a variable-height antenna					
and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode. Final Test Mode: Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report.		ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make					
Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode. Final Test Mode: Pretest the EUT at Transmitting mode and Charge + Transmitting mode, found the Charge + Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to					
transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode. Final Test Mode: Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details							
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for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode. Final Test Mode: Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		h. Test the EUT in the lowest channel, the Highest channel					
complete. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode. Final Test Mode: Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		for Transmitting mode, And found the X axis positioning which it is					
Transmitting mode, Charge + Transmitting mode. Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details							
Final Test Mode: Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.					
found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		Transmitting mode, Charge + Transmitting mode.					
6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details	Final Test Mode:						
case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report. Instruments Used: Refer to section 5.10 for details		Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;					
Instruments Used: Refer to section 5.10 for details		case of 802.11n(HT20); 13.5Mbps of rate is the worst case of					
		Only the worst case is recorded in the report.					
Test Results: Pass	Instruments Used:	Refer to section 5.10 for details					
	Test Results:	Pass					

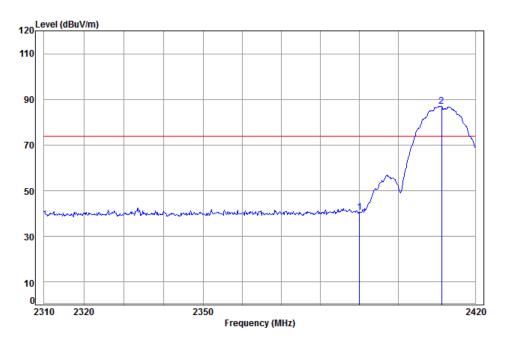


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Test plot as follows:

Test mode: 802.11b Test channel: Remark: Peak Vertical Lowest



Condition: 3m Vertical Job No: : 1243CR

: 2412 Band edge Mode:

: B

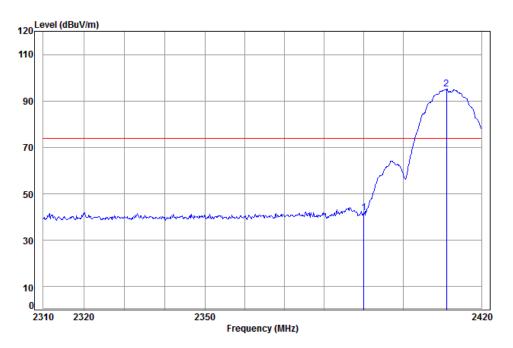
	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2390.00 2411.24							



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Test mode: 802.11b Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 1243CR

Mode: : 2412 Band edge

Cable

: B

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2390.00 2411.01							

Read

Limit

0ver

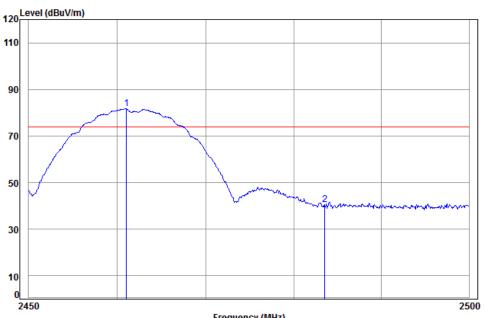
Ant Preamp



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Test mode: 8	302.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Frequency (MHz)

Limit

Oven

Road

Condition: 3m Vertical Job No: : 1243CR

Mode: : 2462 Band edge

Cabla

: B

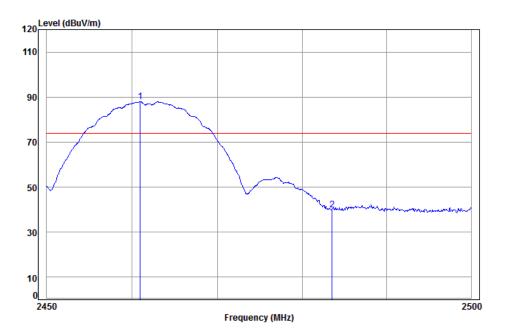
	Freq			Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2461.01 2483.50							

Ant Dnoamn



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Condition: 3m Horizontal

Job No: : 1243CR

1 2

Mode: : 2462 Band edge

: B

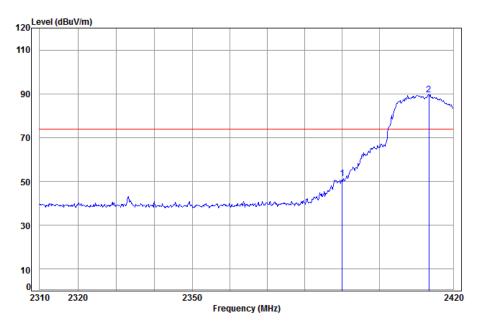
	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
pp	2460.91							



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Test mode: 802.11g Test channel: Lowest Remark: Peak Vertical



Condition: 3m Vertical Job No: : 1243CR

Mode: : 2412 Band edge

: G

Cable Ant Preamp Read Limit Over
Freq Loss Factor Factor Level Level Line Limit

MHz dB dB/m dB dBuV dBuV/m dBuV/m dBuV/m dBuV/m

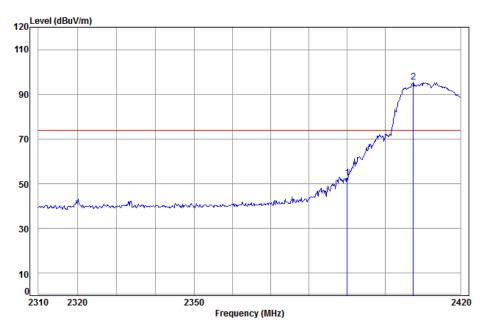
1 2390.00 5.34 28.57 38.11 55.41 51.21 74.00 -22.79 2 pp 2413.37 5.36 28.66 38.11 93.82 89.73 74.00 15.73



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Test mode: 802.11g Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 1243CR

Mode: : 2412 Band edge

: G

				Preamp Factor			Freq	
dB	dBuV/m	dBuV/m	dBuV	dB	dB/m	dB	MHz	
							2390.00	1 2 nn

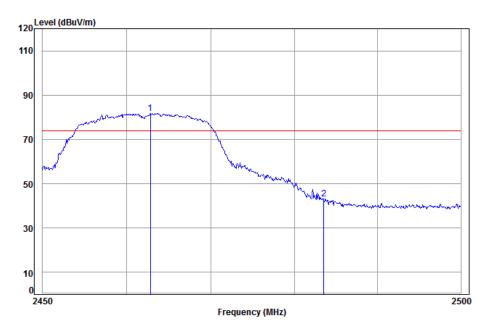




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Test mode: 802.11g Test channel: Highest Remark: Peak Vertical	Test mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m Vertical Job No: : 1243CR

Mode: : 2462 Band edge

: G

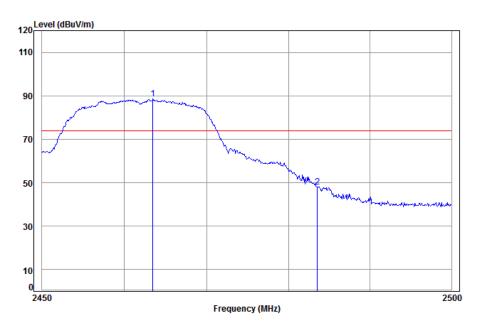
			Cable Ant Preamp Loss Factor Factor					
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB
	2462.80 2483.50							



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Test mode: 802.11g Test channel: Highest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 1243CR

Mode: : 2462 Band edge

: G

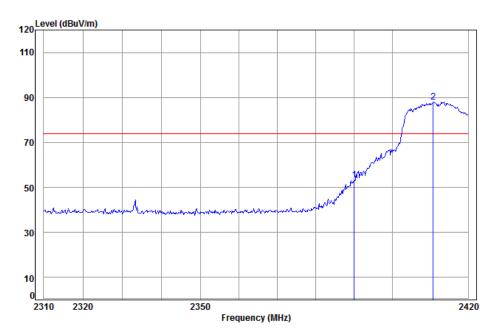
	Enga			Preamp Factor				
_	rreq					Level		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2463.45							
2	2483.50	5.41	28.98	38.12	51.87	48.14	74.00	-25.86



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Test mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Vertical



Condition: 3m Vertical

Job No: : 1243CR

Mode: : 2412 Band edge

: N20

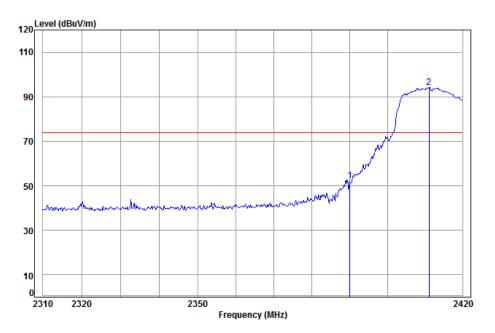
Ant Preamp Cable 1 Read limit Over Freq Loss Factor Factor Level Level Limit Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2390.00 5.34 28.57 38.11 57.47 53.27 74.00 -20.73 2410.79 5.35 28.65 38.11 92.03 87.92 74.00 13.92



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Test mode: 802.11n(HT20) Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 1243CR

Mode: : 2412 Band edge

: N20

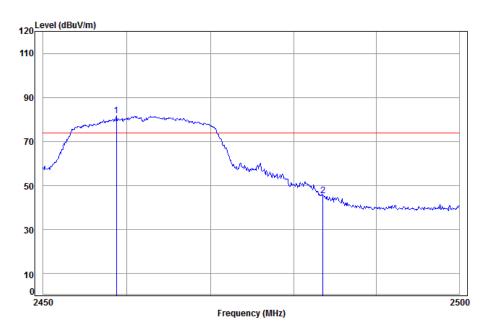
Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Level MHz dB dB/m dB dBuV dBuV/m dBuV/m 2390.00 5.34 28.57 38.11 56.47 52.27 74.00 -21.73 2411.01 5.35 28.65 38.11 98.38 94.27 74.00 20.27



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Test mode: 802.11n(HT20) Test channel: Highest Remark: Peak Vertical



Condition: 3m Vertical Job No: : 1243CR

Mode: : 2462 Band edge

: N20

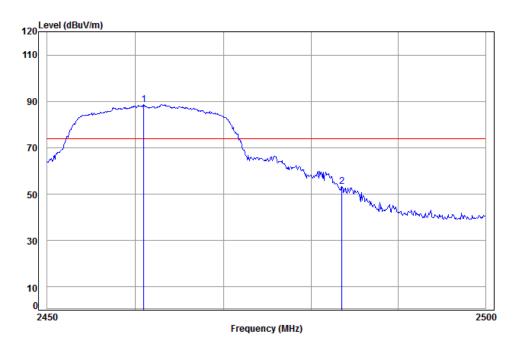
Ant Preamp Cable Read limit Over Freq Loss Factor Factor Level Level Limit MHz dB dB/m dΒ dBuV dBuV/m dBuV/m 1 pp 2458.73 5.39 28.87 38.12 85.50 81.64 74.00 7.64 5.41 28.98 38.12 49.12 45.39 74.00 -28.61



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Test mode: 802.11n(HT20) Test channel: Highest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 1243CR

Mode: : 2462 Band edge

: N20

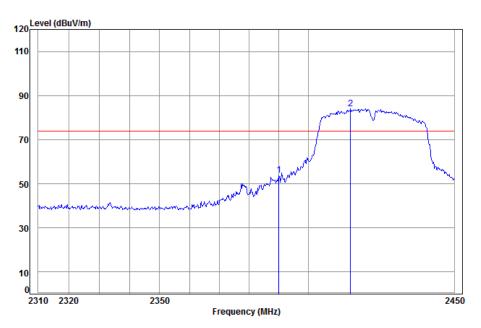
	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
	2460.91 2483.50							



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Test mode: 802.11n(HT40) Test channel: Lowest Remark: Peak Vertical



Condition: 3m Vertical Job No: : 1243CR

Mode: : 2422 Band edge

: N40

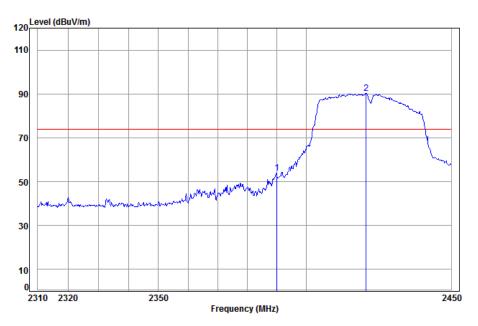
Ant Preamp Limit 0ver Cable Read Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m 5.34 28.57 38.11 58.10 53.90 74.00 -20.10 2390.00 5.36 28.67 38.11 88.14 84.06 74.00 10.06



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Test mode: 802.11n(HT40) Test channel: Lowest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 1243CR

: 2422 Band edge Mode:

: N40

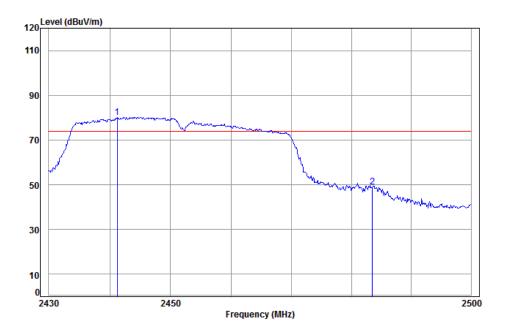
	Freq			Preamp Factor				
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
'n	2390.00							



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Test mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m Vertical Job No: : 1243CR

Mode: : 2452 Band edge

: N40

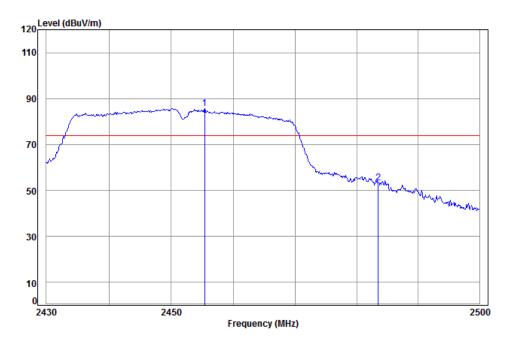
Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit dBuV dBuV/m dBuV/m MHz dB dB/m dB dB 2441.21 5.38 28.79 38.11 84.18 80.24 74.00 2483.50 5.41 28.98 38.12 52.70 48.97 74.00 -25.03



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Test mode: 802.11n(HT40) Test channel: Highest Remark: Peak Horizontal



Condition: 3m Horizontal

Job No: : 1243CR

Mode: : 2452 Band edge

: N40

	Freq			Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 2	2455.39 2483.50							

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



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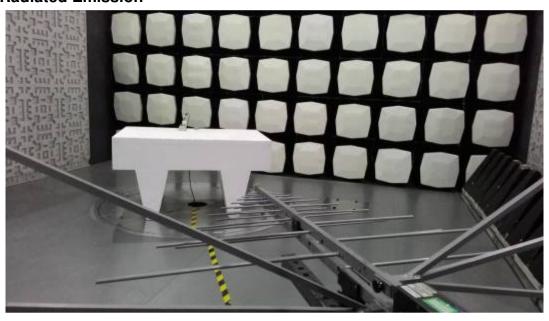
7 Photographs - EUT Test Setup

Test model No.: A6

7.1 Conducted Emission



7.2 Radiated Emission

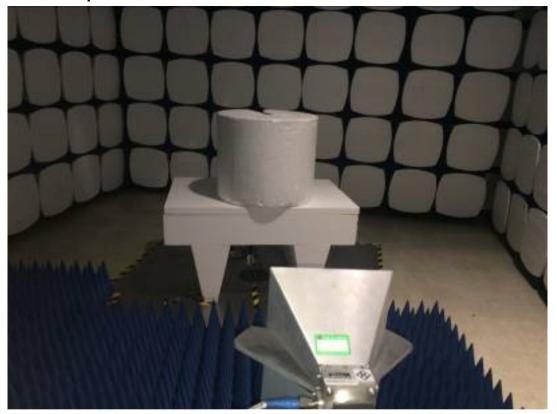




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7.3 Radiated Spurious Emission



8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1603001243CR.